

**Abstract**

The invention relates to the rational mutagenesis of polypeptides of  $\alpha/\beta$  T-cell receptors that mediate an oncogen-specific T-cell response, nucleic acids encoding these and their use in the therapy, diagnosis and/or prevention of cancerous diseases. The invention further relates to a T-cell response-mediating MDM2-protein-specific  $\alpha/\beta$  T-cell receptor, which has been rationally mutated by means of the method according to the present invention, and the uses thereof.